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Example 8 (Method 1)

Find the HCF and LCM of 6, 72 and 120, using the prime factorisation method.

$$\begin{array}{r} 2 \overline{) 6} \\ 3 \overline{) 3} \\ \hline 1 \end{array} \qquad \begin{array}{r} 2 \overline{) 72} \\ 2 \overline{) 36} \\ 2 \overline{) 18} \\ 3 \overline{) 9} \\ 3 \overline{) 3} \\ \hline 1 \end{array} \qquad \begin{array}{r} 2 \overline{) 120} \\ 2 \overline{) 60} \\ 2 \overline{) 30} \\ 3 \overline{) 15} \\ 5 \overline{) 5} \\ \hline 1 \end{array}$$

$$6 = 2 \times 3 = 2^1 \times 3^1$$

$$72 = 2 \times 2 \times 2 \times 3 \times 3 = 2^3 \times 3^2$$

$$120 = 2 \times 2 \times 2 \times 3 \times 5 = 2^3 \times 3^1 \times 5^1$$

H.C.F = Product of smallest power of each common prime factor
 $= 2^1 \times 3^1$
 $= 6$

L.C.M = Product of greatest power of each prime factor
 $= 2^3 \times 3^2 \times 5$
 $= 8 \times 9 \times 5 = 360$

Name: _____ Grade: _____ Date: _____

Topic: Finding the HCF and LCM using Prime Factorization

Instructions: Find the HCF and LCM using prime factorization. For the factor tree, start with the smallest prime number that can be used. When listing prime factors, list the prime factors in **ascending order**.

(1) $\begin{array}{c} 18 \\ \wedge \\ \wedge \end{array}$ $\begin{array}{c} 27 \\ \wedge \\ \wedge \end{array}$ (2) $\begin{array}{c} 20 \\ \wedge \\ \wedge \end{array}$ $\begin{array}{c} 30 \\ \wedge \\ \wedge \end{array}$

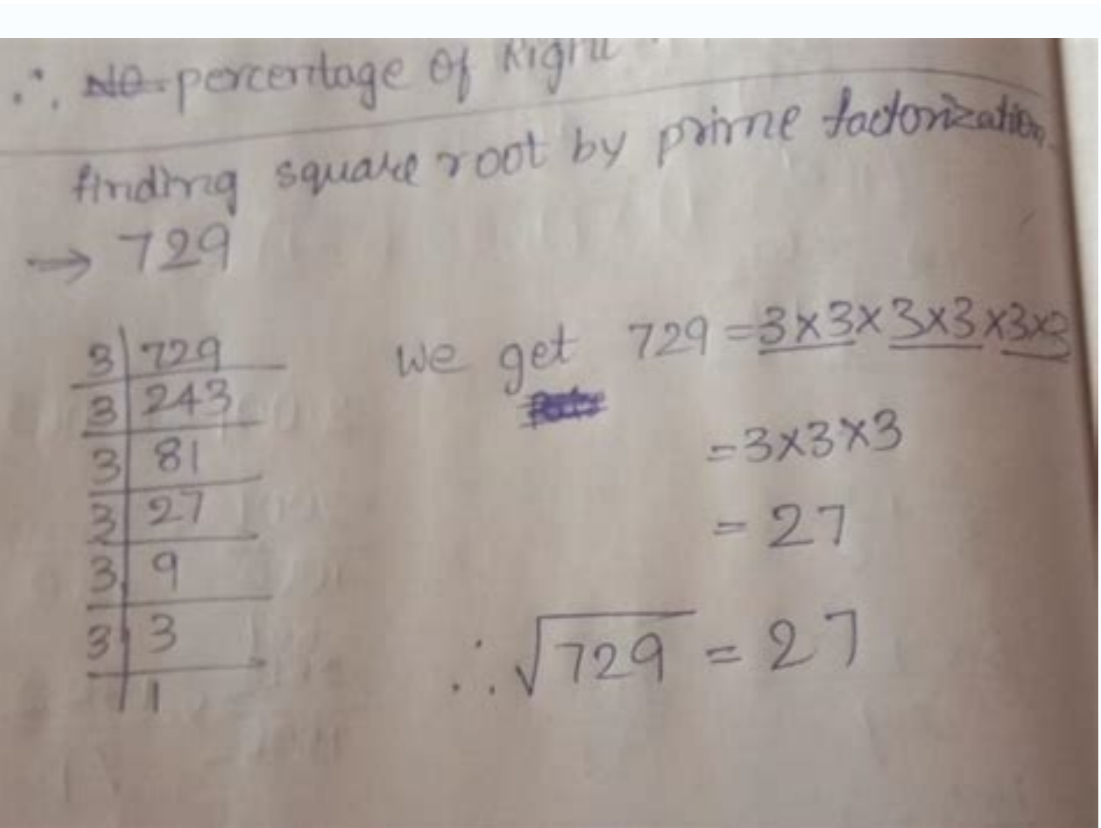
18 = $\frac{\times \times}{\times \times}$ 20 = $\frac{\times \times}{\times \times}$
 27 = $\frac{\times \times}{\times \times}$ 30 = $\frac{\times \times}{\times \times}$
 HCF = _____ HCF = _____
 LCM = _____ LCM = _____

(3) $\begin{array}{c} 24 \\ \wedge \\ \wedge \end{array}$ $\begin{array}{c} 36 \\ \wedge \\ \wedge \end{array}$ (4) $\begin{array}{c} 50 \\ \wedge \\ \wedge \end{array}$ $\begin{array}{c} 75 \\ \wedge \\ \wedge \end{array}$

24 = $\frac{\times \times \times}{\times \times \times}$ 50 = $\frac{\times \times}{\times \times}$
 36 = $\frac{\times \times \times}{\times \times \times}$ 75 = $\frac{\times \times}{\times \times}$
 HCF = _____ HCF = _____
 LCM = _____ LCM = _____

(5) $\begin{array}{c} 40 \\ \wedge \\ \wedge \end{array}$ $\begin{array}{c} 60 \\ \wedge \\ \wedge \end{array}$ (6) $\begin{array}{c} 21 \\ \wedge \\ \wedge \end{array}$ $\begin{array}{c} 24 \\ \wedge \\ \wedge \end{array}$ $\begin{array}{c} 56 \\ \wedge \\ \wedge \end{array}$

40 = $\frac{\times \times \times}{\times \times \times}$ 21 = $\frac{\times}{\times \times \times}$
 60 = $\frac{\times \times \times}{\times \times \times}$ 24 = $\frac{\times \times \times}{\times \times \times}$
 HCF = _____ 56 = $\frac{\times \times \times}{\times \times \times}$
 LCM = _____ HCF = _____
 LCM = _____

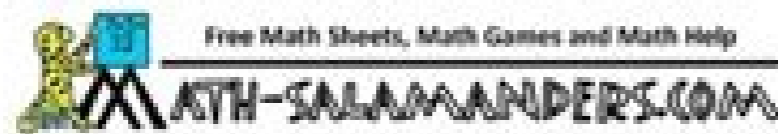




FACTORISING QUADRATIC EQUATIONS SHEET 10

Factorise these quadratic equations.

1)	$2x^2 + 3x + 1 = 0$	$(2x + \underline{\quad})(x + \underline{\quad})$	$x = \underline{\quad}$ or $\underline{\quad}$
2)	$2y^2 + 7y + 6 = 0$		
3)	$2z^2 - 9z - 8 = 0$		
4)	$2a^2 - 3a - 5 = 0$		
5)	$2b^2 - 5b + 3 = 0$		
6)	$2c^2 + 7c - 4 = 0$		
7)	$2d^2 - 9d + 9 = 0$		
8)	$2e^2 - 3e + 1 = 0$		
9)	$2f^2 - 6f - 8 = 0$		
10)	$2g^2 - g - 10 = 0$		
11)	$2h^2 + 9h + 7 = 0$		
12)	$2i^2 - i - 3 = 0$		
13)	$2j^2 - 13j + 6 = 0$		
14)	$2k^2 + 3k - 9 = 0$		
15)	$2m^2 + 7m - 15 = 0$		
16)	$2n^2 - 8 = 0$		



Name _____ Date _____

Prime Factorization Practice

Difficulty Level: # 9 10 20 30

Directions: Find the prime factors for the numbers below. You may need a piece of scratch paper to complete these problems.

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Examples of prime factorisation.

Practice Prime Factors Questions 16 \ Div 2 = 8 8 \ Div 2 = 4 4 \ Div 2 = 2 2 EN PRIME, so we have found the main factors. Divide the number composed of a suitable cousin number such as 462 is a number, we can divide 462 by 2: the first main factor of 462 is 2. Scripture 36 as a product of its cousin factors gives $2 \times 2 \times 3 \times 3 \times 3$. question 1 for each of the numbers below, draw the factors on paper to write the number as a product of its primordial factors. $25/5 = 5$. Get more information about our GCSE MathS review program. 50 is a uniform number so that we can divide 50 by 2: the fourth main factor is 2 25 extremes in a 5 so that we can divide 25 to 5: the two final primary factors are 5 and 5. written by, Brian Stocker Ma. Full preparation of Test Inc. 77, is not a cousin number, so we must continue to divide by first numbers until the final answer is prime. (a) Write 102 as a product of its primordial factors (B) writes 60 as a product of its prime factors, an example of question 2 is expressed as a product of its prime factors such as: $2 \times 2 \times 3 \times 5$. What are the numbering exercises that work the answers to the following questions and complete the boxes? 5. b The highest cousin number that can divide 125 EN 5. $2 \times 2 \times 3 \times 11$. 9 It is not a cousin number, so we continue with step 2. 91 is not a cousin number, so we have to divide another cousin number. 2×50 3. What are the main factors of 25? 3. $25/5 = 5$. None of the above 6. What are the main factors of 132? E.g. A compound number is the product of two or more factors. To do it more easily, we can break this large number in two smaller numbers, 2×50 or 4×25 . Divide the response by another adequate cousin number The sum of the duggos of $231 + 3 + 1 = 6$ which is a multiple of 3, so we can divide 231 to 3: the second primo factor is 3. D The highest cousin number to divide 132 is 2. 4×5 , 5 b. $125/5 = 25$. Factorforming factorization is writing a mathematical number or mathematical As a product of various factors, items usually smaller or more simple of the same type. Divide the number composed of a suitable cousin number as 4095 ends in a 5, we can divide 4095 to 5: the first main factor of 4095 EN 5. (I) 2 (II) 86 (ID) 50 (V) 68 (v) 74 (vi) 90 (VII) 88 (viii) 48 (ix) 81 (X) 42 (XI) 66 (XII) 45 Answers for the worksheet on the primary factor methods are given below. Answers: 1. The factors multiply between SA, so the solution must contain the multiplication symbol. $132/2 = 66$. Let's use 4×25 . $2 \times 6 \times 11$ d. The cousin factors are first numbers that are factors of another number. Take Example 6 where we were dividing 900 by 3. A more obvious start could have been dividing by 9, however, 9 is not a number cousin. $720 = 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 5$ a. 4 , 2 , $c = 5$ \ Prime Factors GCSE Questions 1.A. Express 126 as a product of cousins. Divide the number composed of an adequate cousin number as 18 is a pair number, we can divide 18 by 2: the first main factor of 18 EN 2. $2 \times 2 \times 2 \times 5 \times 5$ d. 3×27 c. The cousins of $100 = 2 \times 2 \times 5 \times 5$. Get your free fact sheet from first more than 20 questions and answers. Breaking 36 in its cousins using a factor tree. Read our cookies policy to get information about how we use cookies and how to manage or change your cookie configuration. Policy of resources and cookies that respond to the example of $6 = 2$, we can say: here, the divider is 3 as we are dividing 6 by 3 to get a ratio of 2. The answers can be written in any order, but we tend to first put the first smaller factors. All these types of numbers are integers (entire numbers). Show that $42 = 2 \times 3 \times 7$. The final solution is, therefore, $42 = 2 \times 3 \times 7$. D Number of small cousin that can divide 25 EN 5. 4. C For this to be more easier. 81 to be 9×9 and then find the main factors of each of these prime numbers. To find the main factors of a number, we need we need Continue to divide the number composed of prime numbers until we are left with only main factors. Weekly online one of the GCSE Mathematics Review Lessons delivered by expert math tutors. There are also work sheets of first-based factors a €

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